OIPE

```
RAW SEQUENCE LISTING                          DATE: 02/19/2002
PATENT APPLICATION:  US/10/058,580            TIME: 11:10:12

Input Set : A:\98-76D1.SEQ.txt
Output Set: N:\CRF3\02192002\J058580.raw

     <110> APPLICANT: Sheppard, Paul O.
           Novak, Julia E.
           Raymond, Fenella
     <120> TITLE OF INVENTION: Tumor Marker Zsig62
     <130> FILE REFERENCE: 98-76
C--> <140> CURRENT APPLICATION NUMBER: US/10/058,580
C--> <141> CURRENT FILING DATE: 2002-01-28
     <160> NUMBER OF SEQ ID NOS: 8
     <170> SOFTWARE: FastSEQ for Windows Version 3.0
     <210> SEQ ID NO: 1
     <211> LENGTH: 2334
     <212> TYPE: DNA
     <213> ORGANISM: Homo sapiens
     <220> FEATURE:
     <221> NAME/KEY: CDS
     <222> LOCATION: (20)...(316)
     <400> SEQUENCE: 1
caggtcatgt cattccaga atg tgt tgc tgg cct tct cca tgg gtg cag gga      52
                     Met Cys Cys Trp Pro Ser Pro Trp Val Gln Gly
                      1               5                  10
agc cct ggc att tgg cat ttg tgg gca gtg ttg gcg tgc cac ctg ggt      100
Ser Pro Gly Ile Trp His Leu Trp Ala Val Leu Ala Cys His Leu Gly
            15                  20                  25
cac agc agc agc agg cag gga atc ctg aga cat cgc cct ggg gga gcc      148
His Ser Ser Ser Arg Gln Gly Ile Leu Arg His Arg Pro Gly Gly Ala
        30                  35                  40
ctg cct tct acc cca ggc tgt aca atg acg agt act ctt gga caa aga      196
Leu Pro Ser Thr Pro Gly Cys Thr Met Thr Ser Thr Leu Gly Gln Arg
    45                  50                  55
ccc ctc ttg caa ggc tgc gag gac atc atg gtc cag ccc gag gga gat      244
Pro Leu Leu Gln Gly Cys Glu Asp Ile Met Val Gln Pro Glu Gly Asp
 60                  65                  70                  75
tta tct ttg att gtc ttg agt gct gca tca gct aag aca aaa acc aca      292
Leu Ser Leu Ile Val Leu Ser Ala Ala Ser Ala Lys Thr Lys Thr Thr
                80                  85                  90
gag tca gag gga aaa aaa acg tcc tgatgaggat tgtgcaattt ccggaccatc     346
Glu Ser Glu Gly Lys Lys Thr Ser
            95
attttttaaa aattataaat tatgaaatcc cacattttca atcccaattt ctggaacgtg    406
ttttattttg agcacagaat ggcaacatcc caggaaaaaa agtcatgctc ccattttgct    466
tgtaatcaag tgagctggaa ctgaccctac cccaaatatt ttttgaatag ggaaaagact    526
caactggacc cctctaagga ctgggagctg gcatggagct ggcatcttct gagactgact    586
tgagaagagc ctgataacgc ctagaggaaa caggcagggt tttgcgagca ggggaagatg    646
```

RAW SEQUENCE LISTING DATE: 02/19/2002
PATENT APPLICATION: US/10/058,580 TIME: 11:10:12

Input Set : A:\98-76D1.SEQ.txt
Output Set: N:\CRF3\02192002\J058580.raw

```
58  atagtgggtg ggtggggagc tggcgagggt gccccaggca gaggcaccgt gtgtgtgcaa    706
59  aggcctgcag gtggagaagg gcctgggact cttggagaat ggcaggaagt ttggtgtgcc    766
60  tgtagtctat gagccaggct cagggcagca aaggtctgtc ctgcaggtgt tgtgatgagc    826
61  tgtaccactt agtgggcacc atcaagatga acagagagta acacggtggc actgagaact    886
62  tgagaacagc tcactctaga atgaactgtg tcctccaaag tgtgcagagc caatacctag    946
63  gggtccccaa ggtgactgag cacgggcaca gatccagcag caaatccccc cagtccaaga   1006
64  gctgttcttt ccattctctg ttctttccat tctctgttct tctggtcctt ctgcttatgg   1066
65  caaggtgaaa gtcacaggtg gaattgtccc tatcacctct cccacaccct gatctccttt   1126
66  tacaacaaag agcaagcatc ctctacaaca aagcctttgg ttggtgtcag tgcctggctg   1186
67  ggaggaagta actgttgttt ttactgtgtt taatttcact cctgccgtct gttcacggca   1246
68  ccagtgatca ggttctctgc cagtgggagt gatagaaagt tacctttta aagtaaattt   1306
69  cttggaacgc aaaaaacaag ccaagttaaa taaaaataca aaatatgggg ccaggcgcgg   1366
70  tggctcgtgc ctgtcatccc agcactttgg gaggctgaga cggtggatca cctgaggtca   1426
71  ggagtttgag accagcctga ccaacaaggt gaagccccgt ctctactaaa aatacaaaaa   1486
72  ttagccgggc gtggtggcag gcacctgtag tcccagctac tcgggaggct gggacagagg   1546
73  aattgcttga acccgggagg cggaggttgc agtgagccga gatcacgcca ccactgcact   1606
74  ccagcctggg tgacggagcg agatgccatt tcaaaacaaa aacaaaatat gtactggtac   1666
75  cagtacacag taggaaggtg ggcaaaactt gggaaggggg atattcaaag gacagggttt   1726
76  gggaaatgct ggatcaaggt cggggaagaa ggagaactga gaggctgtta taatttagag   1786
77  aagtgcttct cagagtgggg gccagcagcc aggcgccgtg gctcatgcct gtaaccttaa   1846
78  cactttggga ggtctaggcg ggaggattgc ctgagcccag gagttcgagt ccagcttgtg   1906
79  caacatagtg agatgctgtc tctacaaaaa atttaaaaat tagctggtgt cctctcagtg   1966
80  tgtcttgtcc tctccatgtt tctaaaataa aggaagaaag gcccagcgca gtggcgtaca   2026
81  cctatagtct cagcactttg ggaggccaag gtgggcagat cacttgaggt caggagttcg   2086
82  agaccagcct ggctaacatg gcaaaacctt gtttctactg gaaatacaaa aattagctag   2146
83  gcgtggtggt gcacgcctgt aatcccagct acttgggagg ctgagggagg agaaccgctt   2206
84  gagcctggga ggcagaggct gcagtgagcc aagatcacac actgcactcc agcctgggtg   2266
85  acagagcgag actccatctc aaataaataa ataaataaat aaaaataaat acataaatac   2326
86  ataaaata                                                           2334
```

88 <210> SEQ ID NO: 2
89 <211> LENGTH: 99
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 2

```
94  Met Cys Cys Trp Pro Ser Pro Trp Val Gln Gly Ser Pro Gly Ile Trp
95   1               5                  10                  15
96  His Leu Trp Ala Val Leu Ala Cys His Leu Gly His Ser Ser Ser Arg
97              20                  25                  30
98  Gln Gly Ile Leu Arg His Arg Pro Gly Gly Ala Leu Pro Ser Thr Pro
99          35                  40                  45
100  Gly Cys Thr Met Thr Ser Thr Leu Gly Gln Arg Pro Leu Leu Gln Gly
101      50                  55                  60
102  Cys Glu Asp Ile Met Val Gln Pro Glu Gly Asp Leu Ser Leu Ile Val
103  65                  70                  75                  80
104  Leu Ser Ala Ala Ser Ala Lys Thr Lys Thr Thr Glu Ser Glu Gly Lys
105                 85                  90                  95
106  Lys Thr Ser
```

108 <210> SEQ ID NO: 3
109 <211> LENGTH: 297

RAW SEQUENCE LISTING DATE: 02/19/2002
PATENT APPLICATION: US/10/058,580 TIME: 11:10:12

Input Set : A:\98-76D1.SEQ.txt
Output Set: N:\CRF3\02192002\J058580.raw

110 <212> TYPE: DNA
C--> 111 <213> ORGANISM: Arificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: This degenerate sequence encodes the amino acid
115 sequence of SEQ ID NO:2.
117 <221> NAME/KEY: variation
118 <222> LOCATION: (1)...(297)
119 <223> OTHER INFORMATION: N is any nucleotide.
121 <400> SEQUENCE: 3
W--> 122 atgtgytgyt ggccnwsncc ntgggtncar ggnwsnccng gnathtggca yytntgggcn 60
W--> 123 gtnytngcnt gycayytngg ncaywsnwsn wsnmgncarg gnathytnmg ncaymgnccn 120
W--> 124 ggnggngcny tnccnwsnac nccnggntgy acnatgacnw snacnytngg ncarmgnccn 180
W--> 125 ytnytncarg gntgygarga yathatggtn carccngarg gngayytnws nytnathgtn 240
W--> 126 ytnwsngcng cnwsngcnaa racnaaracn acngarwsng arggnaaraa racnwsn 297
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 23
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: PCR primer
136 <400> SEQUENCE: 4
137 ctgatgcagc actcaagaca atc 23
139 <210> SEQ ID NO: 5
140 <211> LENGTH: 24
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: PCR primer
147 <400> SEQUENCE: 5
148 ggcatttgtg ggcagtgttg gggc 24
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 18
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: PCR primer
158 <400> SEQUENCE: 6
159 ggagctggca tcttctga 18
161 <210> SEQ ID NO: 7
162 <211> LENGTH: 18
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: PCR primer
169 <400> SEQUENCE: 7
170 tccccaccca cccactat 18
172 <210> SEQ ID NO: 8
173 <211> LENGTH: 16
174 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 02/19/2002
PATENT APPLICATION: US/10/058,580 TIME: 11:10:12

Input Set : A:\98-76D1.SEQ.txt
Output Set: N:\CRF3\02192002\J058580.raw

175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Peptide linker
180 <400> SEQUENCE: 8
181 Gly Gly Ser Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
182 1 5 10 15

VERIFICATION SUMMARY DATE: 02/19/2002
PATENT APPLICATION: US/10/058,580 TIME: 11:10:13

Input Set : A:\98-76D1.SEQ.txt
Output Set: N:\CRF3\02192002\J058580.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:111 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3